

**IN THE UNITED STATES DISTRICT COURT  
FOR THE NORTHERN DISTRICT OF OKLAHOMA**

1.	<b>RARE BREED TRIGGERS, LLC, a North</b>	)	
	<b>Dakota limited liability company, and</b>	)	
2.	<b>ABC IP, LLC, a Delaware limited liability</b>	)	
	<b>company,</b>	)	
		)	
	<b>Plaintiffs</b>	)	
		)	
v.		)	<b>Case No.: _____</b>
		)	
1.	<b>THOMAS ALLEN GRAVES, an individual,</b>	)	
2.	<b>POWERED BY GRAVES, INC., an Oklahoma</b>	)	
	<b>corporation,</b>	)	
3.	<b>VALOR MANUFACTURING LLC, an</b>	)	
	<b>Oklahoma limited liability company, and</b>	)	
4.	<b>VALOR ARMS LLC, an Oklahoma limited</b>	)	
	<b>liability company,</b>	)	
		)	
	<b>Defendants.</b>	)	<b>Jury Trial Demanded</b>

**COMPLAINT FOR PATENT INFRINGEMENT**

This is an action for patent infringement in which Rare Breed Triggers, LLC (“Rare Breed”) and ABC IP LLC (“ABC”) (collectively, “Plaintiffs”) accuse Thomas Allen Graves (“Graves”), Powered By Graves, Inc. (“PBG”), Valor Manufacturing, LLC (“Valor Manufacturing”), and Valor Arms, LLC (“Valor Arms”) (collectively “Defendants”), of infringing U.S. Patent No. 10,514,223 (“the ’223 Patent”) as follows:

**PARTIES**

1. Rare Breed is a limited liability company organized under the laws of the State of North Dakota with an address at 3523 45<sup>th</sup> Street South, Suite 100, Fargo, ND 58104.
  
2. ABC is a limited liability company organized under the laws of the State of Delaware with an address at 8 The Green, Suite A, Dover, DE 19901.
  
3. Upon information and belief, Defendant Thomas Allen Graves is an individual

residing in or around Sand Springs, Oklahoma.

4. Powered By Graves, Inc. is a corporation organized under the laws of the State of Oklahoma with a registered agent at 2461 Stone Creek Way, Mannford, Oklahoma 74044.

5. Upon information and belief, Defendant Valor Manufacturing, LLC is a limited liability company organized under the laws of the State of Oklahoma with a place of business at 10169 OK-66 Ste B, Sapulpa, OK 74066, and a registered agent at 6228 S 161<sup>st</sup> West Avenue, Sapulpa, Oklahoma 74063.

6. Upon information and belief, Defendant Valor Arms, LLC is a limited liability company organized under the laws of the State of Oklahoma with a place of business at 10169 OK-66 Ste B, Sapulpa, OK 74066, and a registered agent at 6228 S 161<sup>st</sup> West, Sapulpa, Oklahoma 74063.

### **JURISDICTION AND VENUE**

7. This is an action for patent infringement arising under 35 U.S.C. §§ 271(a)-(b), 281, and 284-85.

8. This Court has subject matter jurisdiction over this action under 28 U.S.C. § 1338, which directs that United States District Courts shall have original jurisdiction of any civil action arising under any Act of Congress relating to patents and pursuant to 28 U.S.C. § 1331, which pertains to civil actions arising under the laws of the United States.

9. Personal jurisdiction over Defendants are proper in this District because Defendants reside in and/or have a place of business his district.

10. Venue is proper in this district pursuant to 28 U.S.C. § 1400(b). Defendants reside in this district and/or have a regular and established place of business in this District.

**BACKGROUND**

11. This lawsuit asserts infringement of the '223 Patent. A true and correct copy of the '223 Patent is attached hereto as Exhibit 1.

12. ABC is the current assignee and owner of all right, title and interest in and to the '223 Patent. This assignment has not been recorded at the United States Patent and Trademark Office ("USPTO"). Rare Breed has the exclusive license and right to sell products covered by the '223 Patent.

13. Upon information and belief, Defendants have committed acts of patent infringement, which will be described in more detail below. These acts are in violation of 35 U.S.C. § 271 and should be considered willful.

14. The Plaintiffs and Defendants operate in the firearms industry.

15. Plaintiffs are responsible for developing the first commercial forced reset semiautomatic trigger, including the Rare Breed FRT-15™ for use in the AR-15 weapon platform. The FRT-15™ trigger is one embodiment of the '223 Patent's invention.

16. For the entire time the FRT-15™ has been marketed and sold by Rare Breed, it has been marked with a patent notice complying with 35 U.S.C. § 287. The patent number is engraved on the product and displayed on packaging as shown below:



17. The Rare Breed FRT-15™ trigger was first introduced to the market in December 2020. It is unique, being the only hammer-forced-reset semiautomatic trigger on the market and exclusively protected by the '223 Patent. The unique FRT-15™ trigger created a new market for the product that did not exist before. The FRT-15™ trigger has been the subject of much publicity, consumer interest, and vigorous sales.

18. Defendants are responsible for misappropriating Plaintiffs' proprietary technology and selling it as their own in direct competition with Rare Breed.

19. On August 30, 2021, counsel for Plaintiffs sent a cease and desist demand letter to Defendant Graves, informing him of the '223 Patent and expressly accusing him of patent infringement. *See Exhibit 2.* Graves did not respond.

20. On November 18, 2021, counsel for Plaintiffs sent a cease and desist demand letter to Valor Arms Company, LLC, an entity co-owned and sharing an address with Defendant Valor, informing it of the '223 Patent and expressly accusing Valor of patent infringement. *See Exhibit 3.* Valor did not respond.

21. On or about February 25, 2022, Defendants began offering the "PBG ALAMO-

15” trigger (the “Infringing Device”), pictured in Paragraph 50, below, for sale.

### **Background**

22. Graves was issued U.S. Patent Nos. 9,568,264, issued February 14, 2017, and 9,816,722, issued November 4, 2017 (“the Flex-Fire Technology Patents”), for what he called Flex-Fire Technology.

23. The Flex-Fire Technology Patents disclosed a trigger reset mechanism in which the gun’s bolt, and not the hammer, reset the trigger.

24. Wolf Tactical found Graves’ Flex-Fire Technology not readily adaptable to the AR-platform.

25. So, a new invention was made by Jeffrey Cooper Rounds (“Rounds”) of Wolf Tactical that used movement of the hammer, rather than the bolt (or bolt carrier), to reset the trigger in combination with a locking bar that keeps the trigger from being pulled again until the action returns to battery (i.e., the bolt carrier and bolt returns to the closed, “in-battery” position). This new invention is embodied and claimed in the ’223 Patent, which was assigned to Wolf Tactical. Although not limited to use in an AR-pattern firearm, it is readily adaptable thereto, including as a “drop-in” trigger assembly.

26. Wolf Tactical assigned the ’223 Patent to Rare Breed, who then assigned it to ABC.

27. Later, Graves was issued U.S. Patent No. 9,939,221, issued April 10, 2018, and titled “Flex-Fire G2 Technology.” This patent resulted from a continuation-in-part application filed November 13, 2017, after the priority date of the ’223 Patent. The Flex-Fire G2 Technology Patent also disclosed a trigger reset mechanism in which the gun’s bolt, and not the hammer, reset the trigger

28. On January 31, 2018, Graves granted to Wolf Tactical, LLC (“Wolf Tactical”) of Buda, Texas, an exclusive license (“the Graves License”) to these patents (U.S. Patent Nos. 9,568,264; 9,816,722; and 9,939,221) to “develop, manufacture, make, use, offer for sale, import, and export” products covered by the patents for “AR-pattern firearms.” Thus, Graves would be precluded from making, using, selling, or offering for sale a device covered by the Graves Flex-Fire Technology Patents or the Flex-Fire G2 Technology Patent for AR-pattern firearms without first obtaining a sublicense from Wolf Tactical or its assignee.

29. In designing the Infringing Device (the PBG ALAMO-15 trigger), Defendants copied the invention disclosed and claimed in the ’223 Patent. Infringing Device is a “drop-in” assembly that uses contact of the hammer, rather than the bolt (or bolt carrier), to reset the trigger in combination with a locking bar that keeps the trigger from being pulled again until the action returns to battery.

30. The Infringing Device uses a roller on the locking bar. This modification does not exclude the Infringing Device from the scope of the ’223 Patent claims.

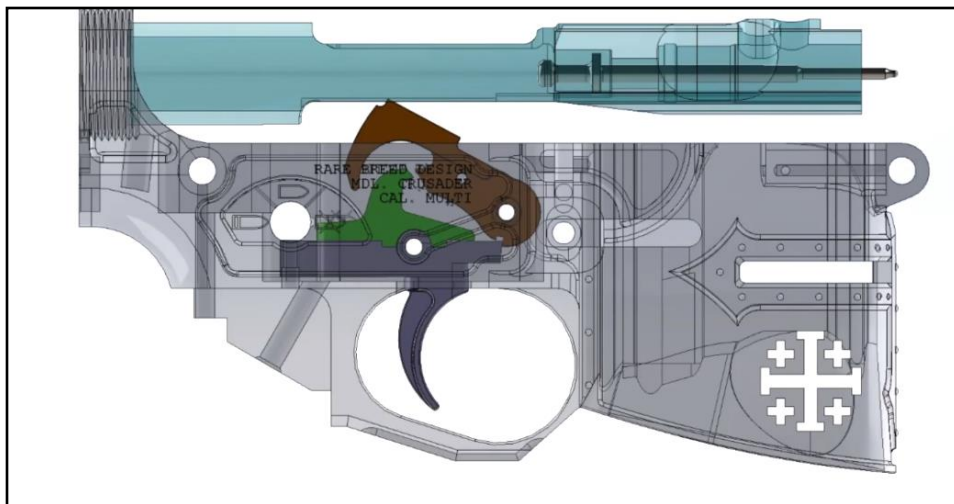
### **The ’223 Patent Invention**

31. The ’223 Patent provides a novel device for accelerating the firing sequence of any semiautomatic firearm, in contrast to a standard semiautomatic trigger or other prior art devices that allow accelerated rate of semiautomatic firing. While the ’223 Patent may be adapted to many types of firearms (including, but not limited to, AR-pattern firearms), the Plaintiffs’ FRT-15™ trigger was designed as a drop-in replacement particularly to fit AR-15 pattern firearms.

32. An example of the Rare Breed FRT-15™ trigger is shown in Paragraph 16, above.

33. A standard AR-15 pattern firearm, for example, is a semiautomatic firearm. In standard semiautomatic firearms, the trigger releases a sear which allows a hammer to contact a firing pin and fire a chambered ammunition cartridge, i.e., a “round.” Part of the force that propels the round is used to cycle the rifle’s bolt/bolt carrier or “action” in a rearward direction which extracts and ejects the spent cartridge. Springs at the rear of the bolt carrier act to return the bolt to its original firing position (i.e., into battery), and while so returning, a new cartridge (i.e., “round”) is placed in the firing chamber. The longitudinal reciprocation of the bolt also resets the hammer and enables the weapon to be fired again. This process can be seen in the sequence of illustrations below.

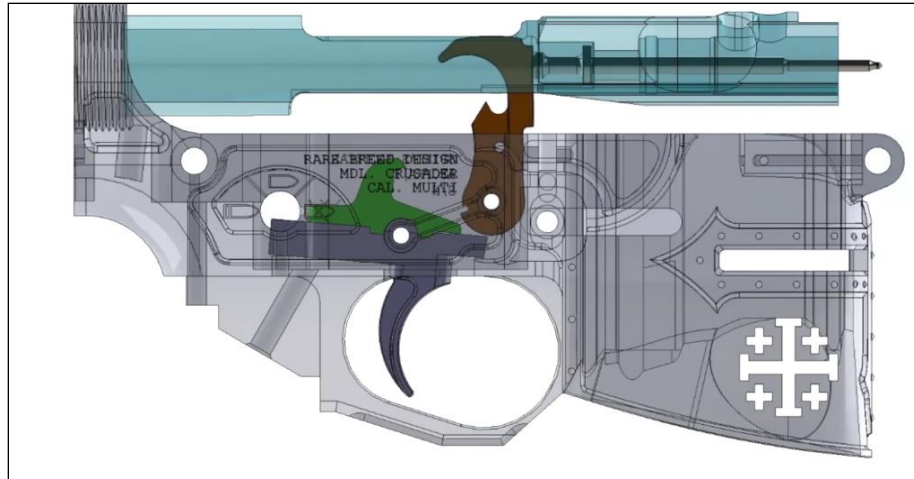
34. For background context, the following is a depiction and description of the operation of a **standard AR-pattern trigger mechanism**:



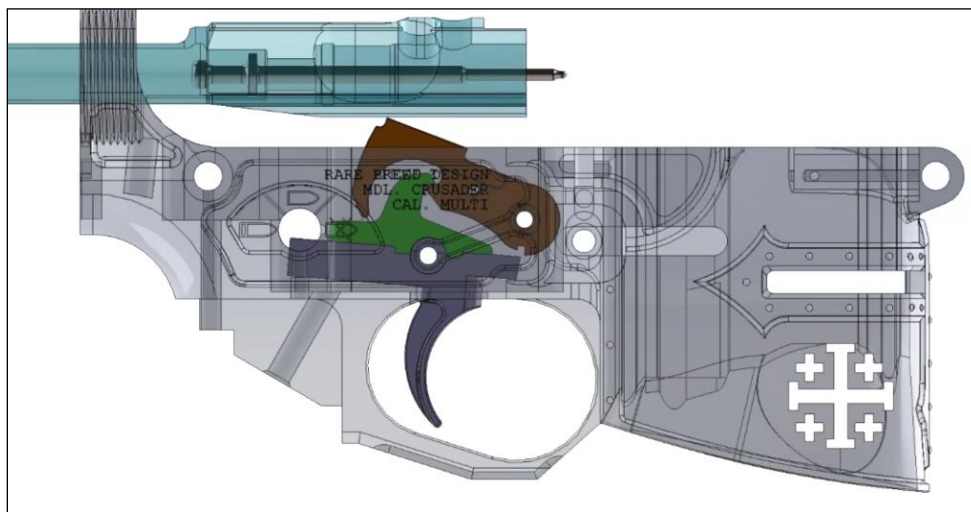
35. The trigger is shown in purple. The hammer is shown in brown. The disconnect is shown in green. The bolt carrier is shown in blue.

36. The process is commenced by the trigger being pulled by the user. The trigger releases the hammer from the trigger sear and allows the hammer to strike the firing pin.





37. A portion of the propellant gas is used to begin the process of sending the **bolt carrier** to the rear of the firearm.



38. The rear-ward movement of **bolt carrier** cocks the **hammer** on the **disconnecter** and allows the bolt to return into battery with a new round inserted into the chamber. While this is happening, in the standard AR-pattern semiautomatic trigger, the user can either continue to hold the **trigger** in a pulled (i.e., fired) state or allow the **trigger** to return to its reset state, in which the sear, rather than the **disconnecter**, engages and holds the **hammer** in a cocked position.

39. The '223 Patent discloses and claims a semiautomatic trigger that represents

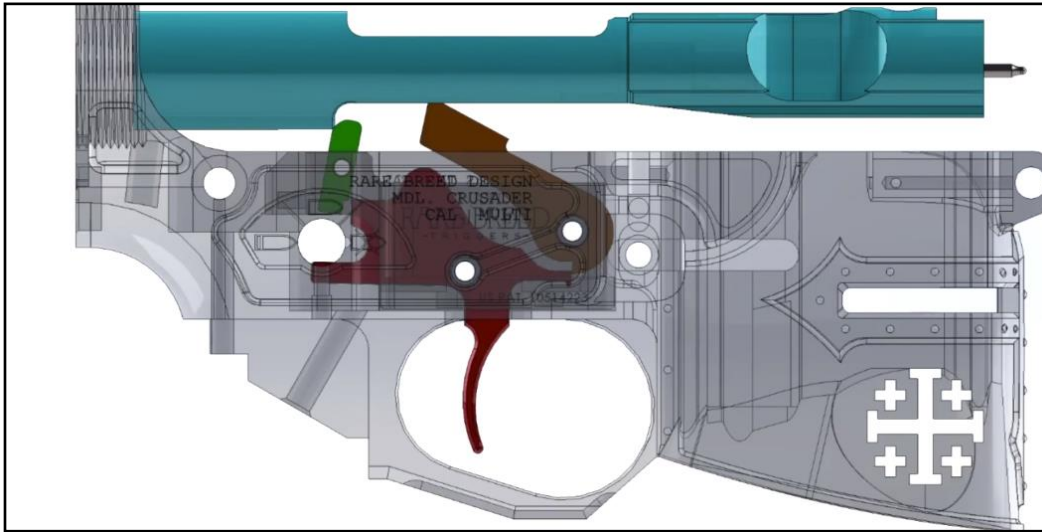


improvement on the above-described technology because it makes the **disconnecter** unnecessary by forcibly returning the **trigger** to the reset state.

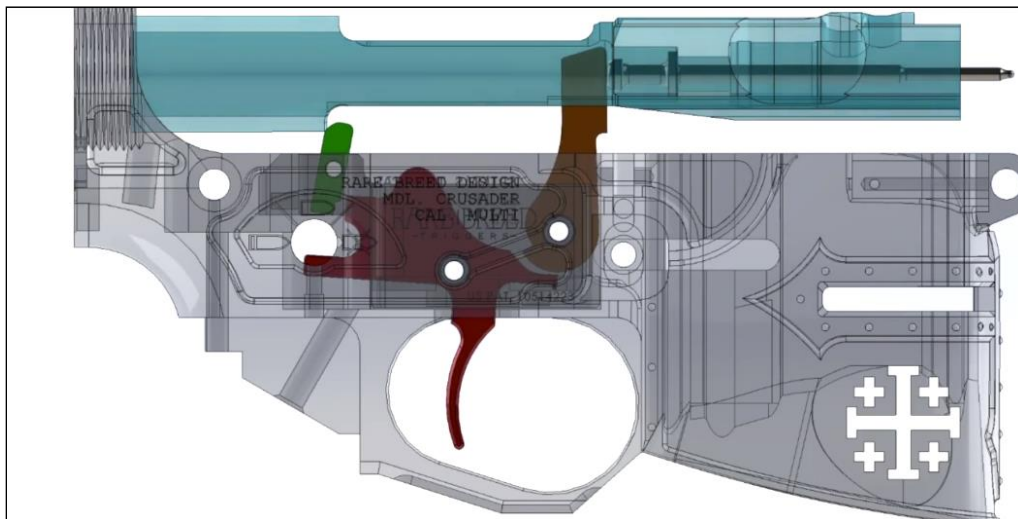
40. In the standard AR-pattern trigger assembly, the purpose of the **disconnecter** is to hold the **hammer** in a cocked position until the **trigger** member is reset by a trigger spring when the user lets the trigger reset. The **disconnecter** allows the firearm to be fired only a single time when the **trigger** is pulled and held, because the user is not typically able to manually reset the **trigger** rapidly enough so that the sear engages before the **bolt carrier** or bolt returns to its in-battery position. The **disconnecter** prevents the firearm from either firing multiple rounds on a single pull of the **trigger**, or from allowing the **hammer** to simply “follow” the **bolt carrier** as it returns to battery without firing a second round, leaving the **hammer** uncocked.

41. The '223 Patent invention does not require a **disconnecter** in the trigger mechanism. The '223 Patent teaches a forcible reset of the **trigger** by the **hammer** while the bolt returns to the in-battery position. The '223 Patent also teaches a “locking bar” which limits movement of the **trigger**. The locking bar acts to prevent the **trigger** from being pulled a second (or subsequent) time until the **bolt carrier** has returned to the in-battery position. This is depicted in the illustrations below.

42. The following is a reproduction of a representative trigger assembly according to an embodiment of the '223 Patent:

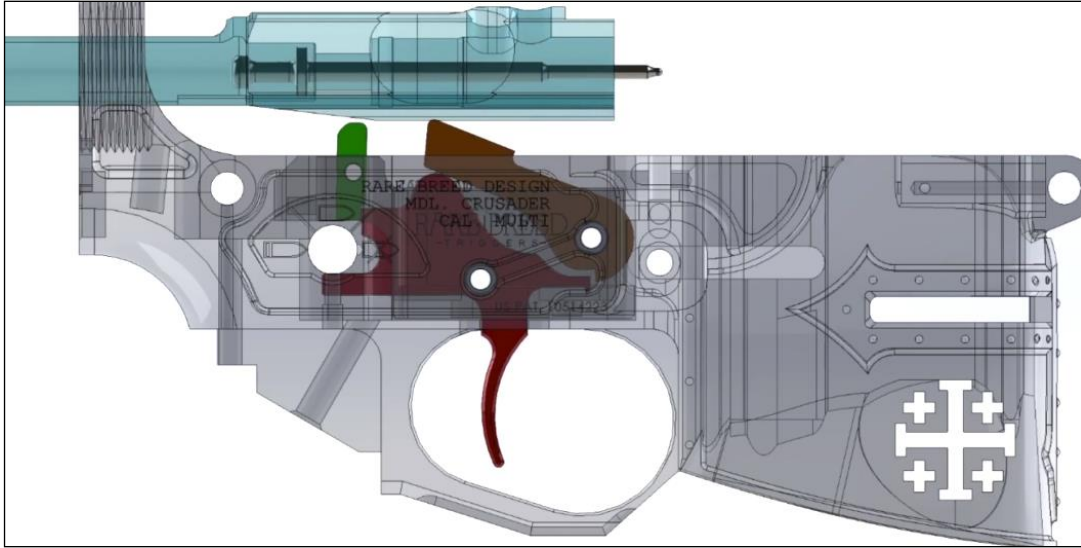


43. The trigger is shown in red. The hammer is shown in brown. The locking bar is shown in green. The bolt carrier is shown in blue.



44. When the trigger is pulled, the hammer is released, which strikes the firing pin carried in the bolt carrier.

45. As the round fires, propellant gas pressure causes the action to cycle. This begins the process of sending the bolt carrier toward the rear of the firearm.



46. As the **bolt carrier** moves toward the rear of the firearm, the **bolt carrier** engages with and cocks the **hammer**. The invention of the '223 Patent provides that the **hammer** forcibly resets the **trigger**. Simultaneously, the **locking bar** engages with the **trigger** and mechanically prevents the shooter from pulling the **trigger** until the **locking bar** is reset. The **locking bar** cannot be reset until the **bolt carrier** returns to its in-battery position.

47. As the **bolt carrier** returns forward to its in-battery position, a new round is inserted into the chamber and the bolt closes. As the bolt closes, the **bolt carrier** contacts and pivots the **locking bar**, freeing the **trigger** to be pulled again by the user and the firing process repeated.

48. The claims of the '223 Patent define the scope of the invention. For example, Claim 4 specifies a housing, a hammer, a trigger member, and a locking bar.

### **The Infringing Trigger**

49. Defendant is currently making, using, selling, and/or offering for sale a version of Plaintiffs' FRT-15™ trigger assembly, which embodies the technology claimed in the '223 Patent.

50. Defendants' infringing trigger assembly is called the "ALAMO-15" ("the Infringing Device"). The Infringing Device is a "drop-in" replacement trigger assembly for an AR-pattern firearm. Exemplary photographs of the Infringing Device are shown below:



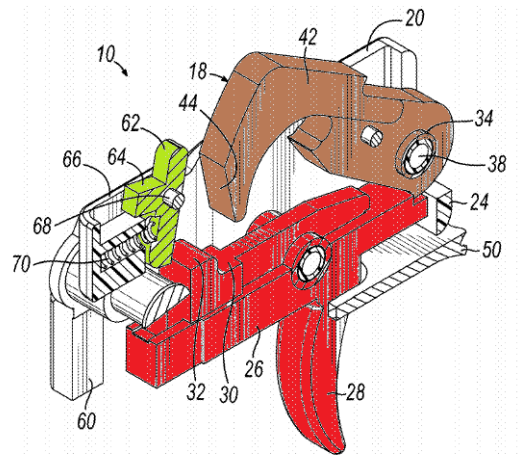
51. Below is an illustration of internal components, primarily the trigger, hammer, locking bar, and springs, of the Infringing Device.



52. Defendants' Infringing Device employs and embodies the technology claimed by the '223 Patent by using the hammer contact to forcibly reset the trigger and preventing the trigger from being pulled again until the forward action of the bolt carrier disengages the locking bar from the trigger, as specified in the claims of the '223 Patent. Furthermore, the

Infringing Device includes a housing with transversely aligned pairs of openings for receiving hammer and trigger assembly pins, as specified in Claim 4 of the '223 Patent.

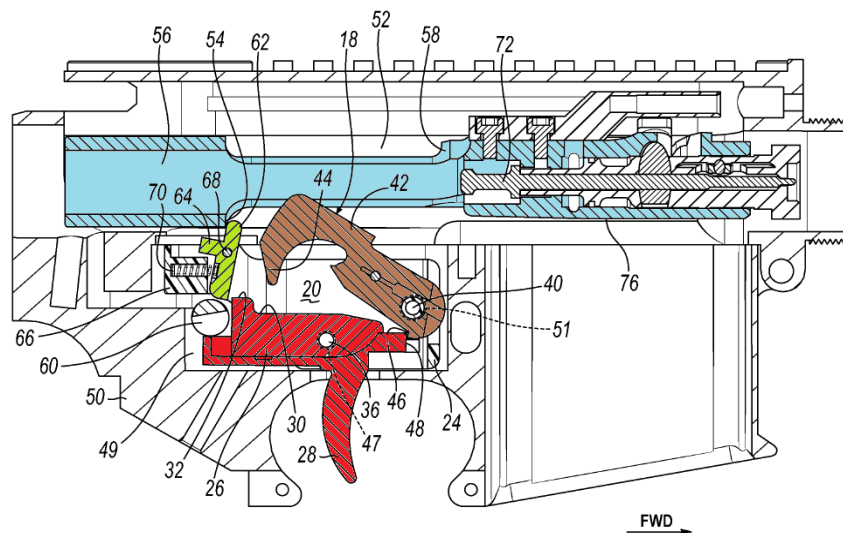
53. FIG. 2 of the '223 Patent, shown below, is illustrative of one embodiment of the invention. FIG. 2 depicts a “drop-in” trigger assembly (with the housing partially cut away).



**FIG. 2**

54. The hammer 18 includes a sear catch 46 that engages the sear 48 on the trigger member 26, when cocked.

55. FIG. 3 is representative of one embodiment of the locking bar 62 and its relationship with the trigger 28, hammer 18, and bolt carrier 56.



**FIG. 3**

56. The user can rotate a safety selector (60) between safe and fire (forced reset semiautomatic with locking bar) modes.

57. For the reasons discussed in more specificity below, the Infringing Device infringes at least one claim of the '223 Patent and thus, Defendants are liable for patent infringement pursuant to 35 U.S.C. § 271.

58. In view of the Defendants' defiance of Rare Breed's demand letter in advance of commercial sale of the Infringing Device, the infringement is willful.

### **Graves Promotion of the Infringing Trigger**

59. On information and belief, Graves holds a principal interest in the manufacture, sale, and/or offer for sale of the Infringing Device.

60. Graves is personally actively involved in the promotion and sale of the Infringing Device, encouraging customers to buy the Infringing Device and use it to infringe the '223 Patent.

61. For example, Graves is featured in promotional videos, such as that which can be viewed at <https://www.youtube.com/watch?v=j5TNi8gYg8Y>. Below is a screen capture image from that promotional video featuring Graves' name and image.





62. The above-identified video instructs viewers to go to [GRAVESTIGGERBDU.COM](http://GRAVESTIGGERBDU.COM) to purchase the Infringing Device, displaying the URL as shown in the screen capture image below:



63. Another such promotional video featuring Graves can be viewed at [https://www.youtube.com/watch?v=3nUJdmBZ\\_8U](https://www.youtube.com/watch?v=3nUJdmBZ_8U). This promotional video also includes Graves' name and image and instructs customers to visit POWEREDBYGRAVES.COM to purchase the Infringing Device, as shown in the screen capture image below from the video:



64. Such activity constitutes direct and/or indirect infringement of the '223 Patent.



65. On information and belief, Graves has licensed his name and/or likeness for use in promoting the sale of the Infringing Device and, therefore, holds at least some control over the product being made, offered for sale, or sold. The POWEREDBYGRAVES.COM website shown above also includes the statement “. . . this is the latest offering by Thomas Allen Graves . . .”

66. On information and belief, Powered By Graves, Inc., holds a principal interest in the manufacture and/or sale of the Infringing Device.

67. On information and belief, Powered By Graves, Inc. was formed and is owned and controlled by Blackstock, Inc., a Florida corporation.

**Valor's Manufacture of the Infringing Trigger**


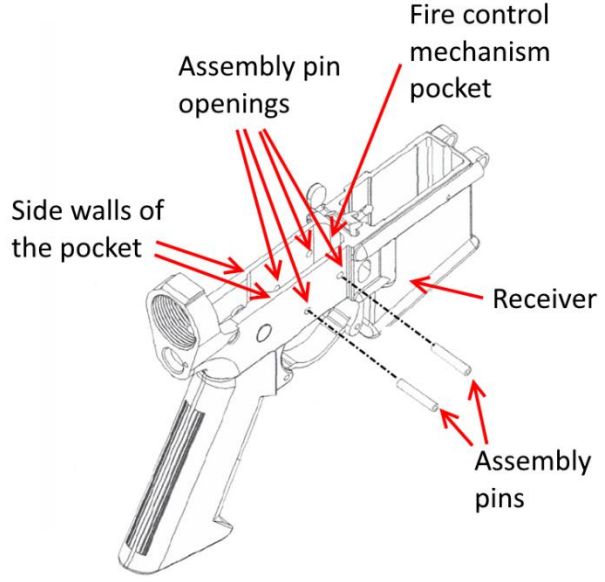
68. On information and belief, Valor Manufacturing and Valor Arms make, use, sell, and/or offer for sale the Infringing Device

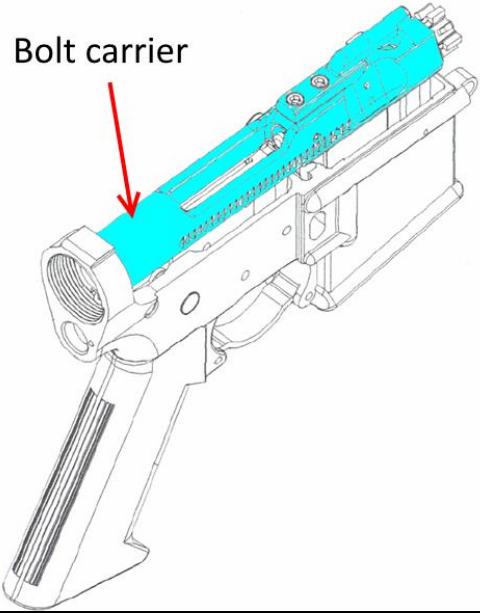

**COUNT I – INFRINGEMENT OF THE '223 PATENT**

69. The allegations set forth in paragraphs 1-68 are fully incorporated into this First Count for Relief.

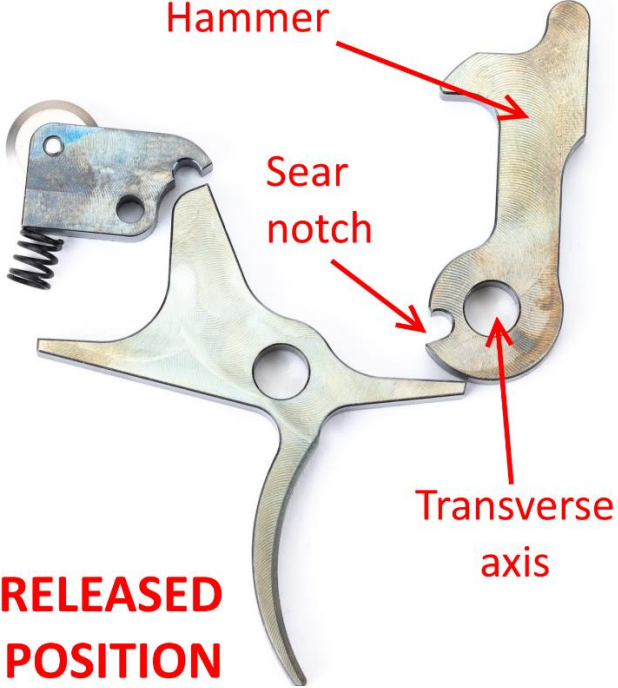
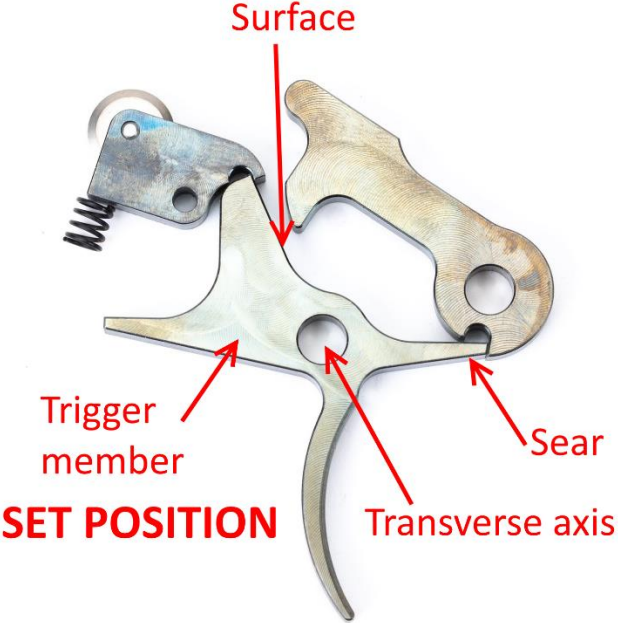
70. Upon information and belief, Defendants have and continue to directly and/or indirectly infringe, including through the doctrine of equivalents, at least Claim 4 of the '223 Patent by making, using, selling, offering for sale, importing and/or promoting, providing, and causing to be used without authority within the United States, the ALAMO-15 forced reset trigger (the “Infringing Devices”). This infringement was willful.

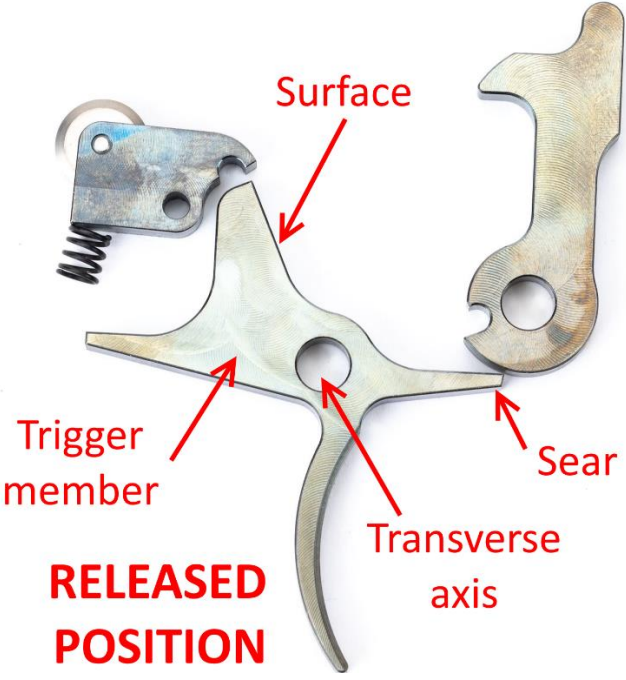
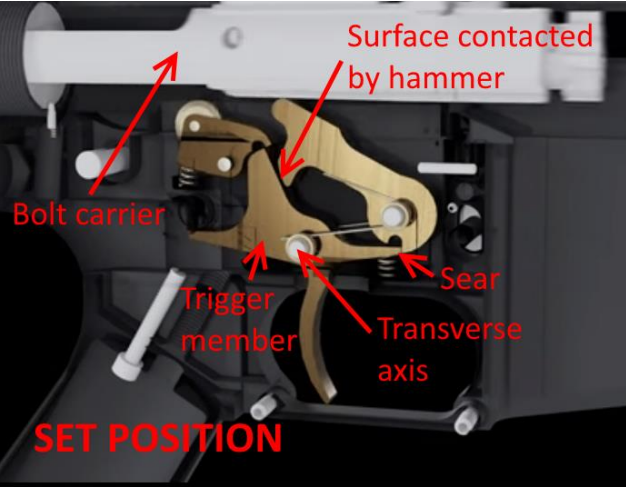
71. An exemplary comparison of the Infringing Device with claim 4 of the '223 Patent is illustrated in the chart below:

Claim Language	Infringing Device (ALAMO-15 Trigger)
<p>4. For a firearm having a receiver with a fire control mechanism pocket, assembly pin openings in side walls of the pocket, and a bolt carrier that reciprocates and pivotally displaces a hammer when cycled, a trigger mechanism, comprising:</p>	<p>The Infringing Device is a trigger mechanism.</p>  <p>It is for an AR-pattern firearm, which has a lower receiver with a fire control pocket and assembly pin openings in side walls of the pocket.</p>  <p>An AR-pattern firearm has a bolt carrier that reciprocates and pivotally displaces a hammer</p>

	<p>when cycled.</p> 
<p>a housing having transversely aligned pairs of openings for receiving hammer and trigger assembly pins;</p>	<p>The Infringing Device includes a housing with transversely aligned pairs of openings for receiving hammer and trigger assembly pins.</p> 
<p>a hammer having a sear notch and mounted in the housing to pivot on a transverse axis between set and released positions;</p>	<p>The Infringing Device includes a hammer with a sear notch and is mounted in the housing to pivot on a transverse axis between set and released positions.</p>

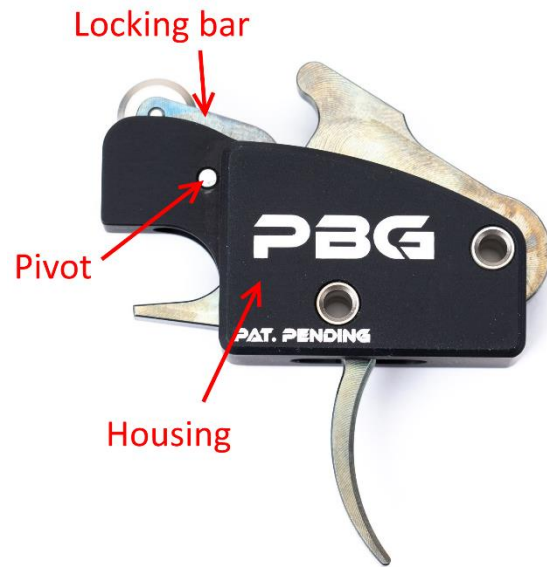


	 <p><b>Released Position</b></p> <p>Hammer</p> <p>Sear notch</p> <p>Transverse axis</p>
<p>a trigger member having a sear and mounted in the housing to pivot on a transverse axis between set and released positions, the trigger member having a surface positioned to be contacted by the hammer when the hammer is displaced by the bolt carrier when cycled, the contact causing the trigger member to be forced to the set position;</p>	<p>The Infringing Device includes a trigger member with a sear and that is mounted in the housing to pivot on a transverse axis between set and released positions.</p>  <p><b>Set Position</b></p> <p>Surface</p> <p>Trigger member</p> <p>Sear</p> <p>Transverse axis</p>

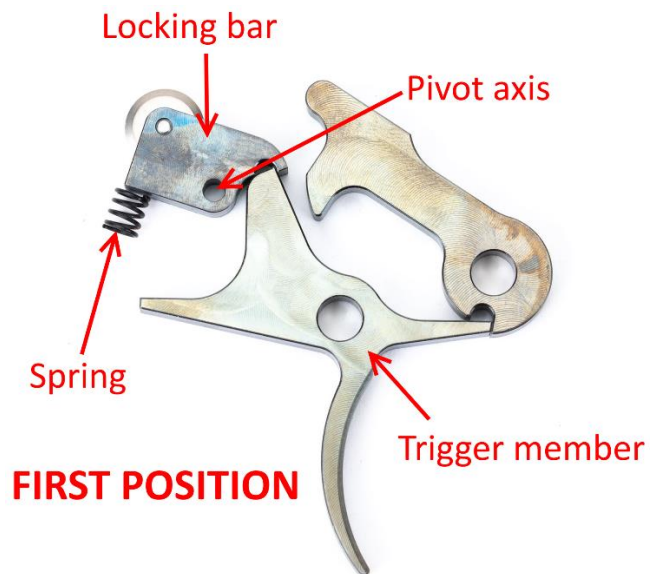
	 <p><b>RELEASED POSITION</b></p> <p>The trigger member has a surface (shown above) positioned to be contacted by the hammer when the hammer is displaced by the bolt carrier when cycled.</p>  <p><b>SET POSITION</b></p> <p>The contact causes the trigger member to be forced to the set position.</p>
<p>a locking bar pivotally mounted in the housing and spring biased toward a first position in which the locking bar mechanically blocks the trigger</p>	<p>The Infringing Device includes a locking bar that is pivotally mounted in the housing.</p>



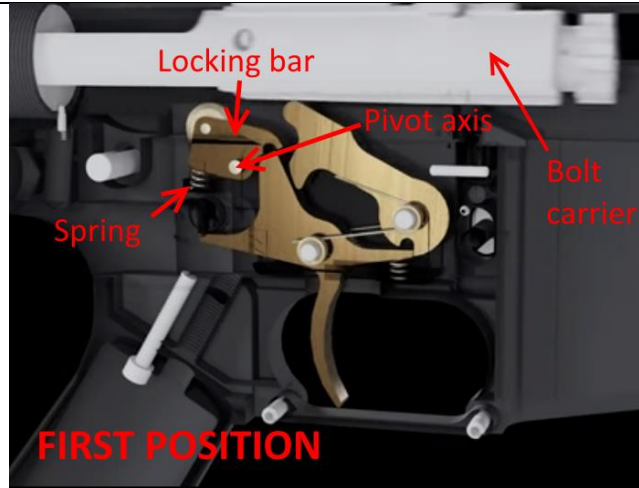
member from moving to the released position, and movable against the spring bias to a second position when contacted by the bolt carrier reaching a substantially in-battery position in which the trigger member can be moved by an external force to the released position.



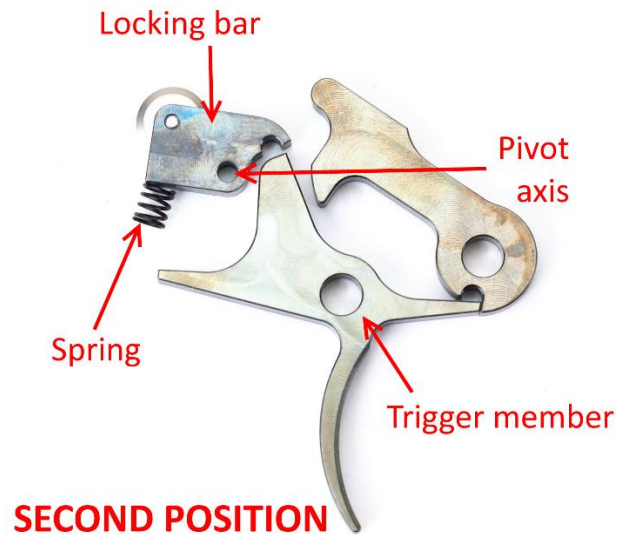
The locking bar is spring biased toward a first position in which the locking bar mechanically blocks the trigger member from moving to the released position.

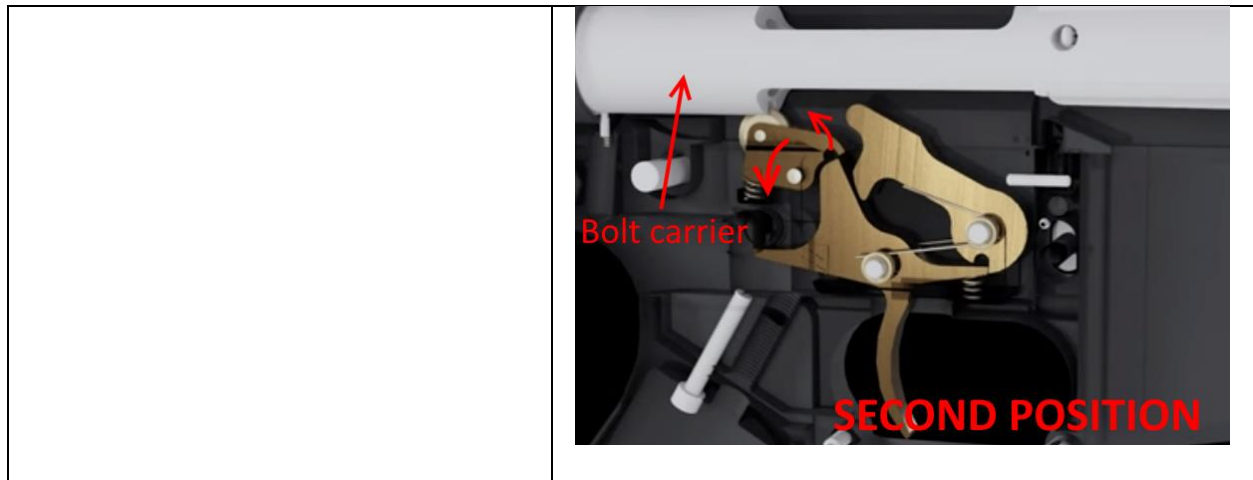






The locking bar is movable against the spring bias to a second position when contacted by the bolt carrier reaches a substantially in-battery position. In this position, the trigger member can be moved by an external force (pull by the trigger finger) to the released position.





72. The working components of the Infringing Device include functional reproductions of the '223 Patent when comparing the working components of the Infringing Device to the language of the claims, which is the legal standard for infringement.

73. Because the claims describe the invention as “comprising” the enumerated elements, the scope of the claims are not limited to those elements and the inclusion of additional structures or features not specified in a claim does not avoid infringement. Thus, the addition of a roller wheel to the locking bar in the Infringing Device does not affect its infringing status.

74. Accordingly, the Defendants’ making, using, selling, offering for sale, and/or importing of the Infringing Devices is a direct and/or indirect infringement of the '223 Patent under 35 U.S.C. § 271 (a), (b), and/or (c).

75. Sales of the Infringing Device directly compete against and unlawfully displace sales of the patented Rare Breed FRT-15™ trigger.

76. Defendants’ acts of infringement are willful and for no other purpose than to deliberately and irreparably harm Plaintiffs’ business, sales, and reputation.

77. Plaintiffs have been substantially harmed by Defendants’ infringing activities

and are entitled to relief including but not limited to a preliminary injunction, a permanent injunction, damages adequate to compensate for the infringement, being lost profits or no less than a reasonable royalty, treble damages, and attorneys' fees.

**PRAYER FOR RELIEF**

WHEREFORE, Plaintiffs respectfully request that this Court enter:

- a. A judgment in favor of Plaintiffs that Defendants have infringed and/or induced others to infringe the '223 Patent;
- b. A preliminary injunction enjoining Defendants and their agents, servants, affiliates, employees, divisions, branches, subsidiaries, parents, and all others acting in active concert therewith from infringement or inducing the infringement of the '223 Patent during the pendency of this case, or other such equitable relief as the Court determines is warranted;
- c. A permanent injunction enjoining Defendants and their agents, servants, affiliates, employees, divisions, branches, subsidiaries, parents, and all others acting in active concert therewith from infringement or contributing to the infringement of the '223 Patent, or other such equitable relief as the Court determines is warranted;
- d. A judgment and order requiring Defendants to pay to Plaintiffs their damages, costs, expenses, and prejudgment and post-judgment interest for Defendants' infringement of the '223 Patent as provided under 35 U.S.C. § 284, and an accounting of any ongoing post-judgment infringement; and
- e. Any and all other relief, at law or equity, to which Plaintiffs may show themselves to be entitled.

**DEMAND FOR JURY TRIAL**

Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable by right.

Respectfully Submitted,

By: /s/ Colin H. Tucker  
COLIN H. TUCKER, OBA 16325  
[chtucker@rhodesokla.com](mailto:chtucker@rhodesokla.com)  
RHODES HIERONYMUS JONES TUCKER & GABLE  
P.O. Box 21100  
Tulsa, OK 74121-1100  
(918) 582-1173; (918) 592-3390 [fax]

-and-

Glenn D. Bellamy  
(pending pro hac vice admission)  
[gbellamy@whe-law.com](mailto:gbellamy@whe-law.com)  
Charles D. Pfister  
(pending pro hac vice admission)  
[cpfister@whe-law.com](mailto:cpfister@whe-law.com)  
Wood Herron & Evans  
2700 Carew Tower  
441 Vine Street  
Cincinnati, OH 45202  
(513) 707-0243; (513) 241-6234 [fax]

***Attorneys for Plaintiffs***